

KACZOROWSKI, Michal, prof.

The Institute of Housing. Review Pol Academy 9 no.1:41-46  
Ja-Mar '64

1. Director, Institute of Housing, Warsaw, Nowy Swiat 69.

KACZOROWSKI, Michal, prof.

Institute for Apartment Building. Nauka polska 11 no.6:  
73-84 '63.

1. Dyrektor Instytutu Budownictwa Mieszkaniowego, Warszawa.

SIEMION, Ignacy Z.; NOWAK, Kornel; KAJZOROWSKI, Zbigniew.

Formation of azlactones. Roczniki chemii 36 no.7/8:1191-1195'62.

1. Department of Biochemistry, Medical Academy, Wrocław.

KACZUR, Zenon

Perforation of gastric and duodenal ulcer. Pol. tyg. lek. 20  
no.38:1417-1419 20 S '65.

1. Ze Szpitala Miejskiego im. N. Cybulskiego w Bielsku-Białej  
(Dyrektor: dr. Władysław Cieśla).

FIALKOWSKI, Stanislaw; KACZURBA, Adam

Spinal tuberculosis with atypical clinical course. Pol. przegl.  
radiol. 28 no.3:211-216 My-Je '64

1. Z Kliniki Ortopedycznej (Kierownik: prof. M. Garlicki)  
i z Zakladu Radiologii Lekarskiej (Kierownik: dr. med.  
A. Kaczurba), Warszawa.

KACZURBA, Adam; JARANOWSKI, Jan; ZAGORSKI, Wladyslaw

Adenomyomatosis of the gallbladder. Pol. przegl. radiol. 28  
no. 3:261-267 My-Je '64

1. Z 2. Centralnego Szpitala Klinicznego Wojskowej Akademii  
Medycznej, Warszawa.

KACZYNSKA-WINID, Jadwiga

"Photographic documentation of vegetational changes in Africa over a third of a century" by H.L.Shantz, B.L.Turner. Reviewed by Jadwiga Kaczynska-Winid. Przegl geogr 34 no.2:420-423 '62.

KACZOROWSKI, MICHAL

Zagadnienia ekonomiki projektowania architektonicznego. (Wyd. 1)

Warszawa, Poland. Arkady. 1958. 167 p.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8  
August 1959.

Uncl.



KACZOROWSKI, M.

PTA

9

1263

72.021.2

Kaczorowski M. Economics of Architectural Designing.

"Ekonomika projektowania architektonicznego". Architektura.  
No. 3-4, 1951, pp. 170-179, 19 figs.

Building, as production process performed in special conditions.  
Bringing building activities, from the economic point of view, into  
line with the general economic laws of socialist production as a who-

le. Reduction of building costs by planning. USSR solutions in re-  
ducing building costs. The problem of reducing building costs in Po-  
land. Selecting the trend of investment activity. Definition of "ef-  
fectiveness". Political considerations as the final criterion of "effec-  
tiveness". Criteria for estimates of investment programmes and for  
design. Compilation of correct cost estimates. Economics in architec-  
tural plastic art. Factors determining the scope of building activities  
in socialist economy. Monumental building in capitalist and socialist  
countries. Definition of the term "monumental building". Solutions  
of the problem of finish of elevations of other than monumental  
buildings, in accordance with the general character of the thorough-  
fare in which they are located.

KACZOROWSKI, P.

Polish induction heaters. Pt.2. Examples of the application of induction motors. p.61

WIADOMOSCI ELEKTROTECHNICZNE. (Stowarzyszenie Elektrykow Polskich, Centralny Zarzad Energetyki, Centralny Zarzad Przemyslu Maszyn Elektrycznych i Centralny Zarzad Przemyslu Kablowego) Warszawa, Poland. Vol.19, no.3, Mar. 1959

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6

June 1959

Uncl.

BROSS, Wiktor; KACZOROWSKI, Stefan; BADER, Otton; BROSS, Tadeusz;  
SAMSONOWICZ, Zdzislaw; MASIAR, Michal; WREZLEWICZ, Wladyslaw;  
SLOWIKOWSKI, Jan

Behavior of acid-base equilibrium in extracorporeal circulation  
under normal temperature. Pol. arch. med. wewnet. 33 no.10:  
1141-1140 '63.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof.  
dr med. W. Bross.

(HEART, MECHANICAL) (ACIDOSIS)  
(BICARBONATES)

POLAND/Chemical Technology. Chemical Products and Their  
Application. Fermentation Industry.

H-27

Abs Jour: Ref Zhur-Khim., No 2, 1959, 6243.

Author : Kaczorowski, Tadeusz.

Inst :

Title : Study of Technological Properties of Barley of New  
Crop under Laboratory Conditions.

Orig Pub: Przem. fermentacyjny, 1958, 2, No 1, 12-18.

Abstract: No abstract.

Card : 1/1

POLAND

KACZOROWSKI, Tadeusz and DLUGOCKA, Hanna, Laboratory of Technological Disinfection, Disinsection, and Deratization (Laboratorium Technologiczne Dezynfekcji, Dezynsekcji, Deratyzacji) in Warsaw (Director: Dr. med. Konrad ZEMBRZUSKI)

"Evaluation of Anticoagulant Rodenticide Preparations."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 18, No 12, Dec 62, pp 741-742.

Abstract: Study on the effectiveness of the Polish preparation "Kumader" for killing rodents, with results, and recommendations for its best effective use. No references.

1/1

ORLOWSKI, Tadeusz, KACZUR, Zdzisław, CZARNIECKI, Lesław

Treatment of cavernous angioma. Polski przegl. chir. 30 no.2:161-165  
Ma '58

1. Z Oddziału Chirurgicznego 4. Wojskowego Szpital Okręgowego  
Ordynator: dr T. Orłowski, Konsultant: prof. dr. W. Bross. Wrocław,  
ul. Ślesna 210 m.3.

(ANGIOMA, ther.

single inject. of boiling water in cavernous angioma of  
rectus abdom. musc. (Pol))

(ABDOMINAL WALL, neoplasms

angioma, cavernous, of rectus musc., ther., single inject.  
of boiling water (Pol))

ORLOWSKI, Tadeusz, KACZUR, Zdzisław

Varicose veins of the duodenum as a cause of abundant hemorrhage into the gastro-intestinal tract. Polski tygod. lek. 13 no.10:363-364  
10 Mar 58

1. Z Oddziału Chirurgicznego Wojskowego Szpitala Okręgowego ordynator:  
T. Orłowski.

(DUODENUM, varix.

hemorrh., severe, into gastrointestinal tract (Pol))

(GASTROINTESTINAL SYSTEM, hemorrh.

severe, caused by varices of duodenum (Pol))

KACZUR, Zdzislaw (Bielsko-Biala, ul. Leona Laska 2 m.11.)

Case of perforation of the small intestine by a foreign body of vegetable origin (prickle). Polski tygod. lek. 13 no.32:1248-1249 11 Aug. 58.

1. (Z Oddzialu Chirurgicznego 4 Wojskowego Szpitala Okregowego we Wroclawiu; ordynator: dr T. Orlovski).

(PLEUM, perf.

by blackberry prickle (Pol))



KACZUR, Zenon

Appendicitis in a strangulated hernia. Pol. przegl. chir. 36  
no.2:211-213 F'64

1. Ze Szpitala Miejskiego im. N.Cybulskiego w Bielsku-Bialej;  
dyrektor: dr. W. Ciesla.

\*

KACZURBA, Adam; SZCZEPANSKI, Kazimierz

Cancer of the kidney pelvis with latent clinical course.  
Pol. przegl. radiol. 27 no.4:329-332 '63.

1. Z Zakładu Radiologii Lekarskiej i z Oddz. Urologicznego 2  
Centralnego Szpitala Klin. WAM.

(KIDNEY PELVIS) (KIDNEY NEOPLASMS)  
(DIAGNOSIS) (PNEUMONIA) (HEMATURIA)  
(KIDNEY DISEASES) (ABNORMALITIES)

KACZURBA, Adam

Bone necrosis during the course of caisson disease. Pol. przegl.  
radiol. 26 no.1:9-26 '62.

1. Z Zakladu Radiologii Lekarskiej AM w Warszawie Kier. prof. dr nauk  
med. W. Zawadowski.

(DECOMPRESSION SICKNESS compl)  
(BONE DISEASES etiol)

KACZURBA, Adam

Radiodiagnosis of cholesteatoma. Pol. przegl. radiol. 26 no.3:181-197  
'62.

1. Z Zakładu Radiologii Lekarskiej AM w Warszawie Kierownik: prof. dr  
nauk med. W. Zawadowski.

(CHOLESTEATOMA radiog)

KACZURBA, Adam; CZARNECKI, Henryk

Radiological examination of the larynx with the use of a contrast medium. Pol. przegl. radiol. 26 no.4:303-310 '62.

1. Z Oddziału Laryngologicznego i z Zakładu Radiologii Lekarskiej Szpitala Klinicznego WAM.

(LARYNX)

(CONTRAST MEDIA)

KACZURBA, Adam

On the localization of foreign bodies in the eye with the  
Zygmunt Grudziński method. Pol. prześl. radiol. 27 no.1:  
11-22 '63.

1. Z Zakładu Radiologii Lekarskiej AM w Warszawie Kierownik:  
prof. dr nauk med. W. Zawadowski.  
(EYE FOREIGN BODIES) (RADIOGRAPHY)

RZUCIDLO, Ludwik; SCHILLER, Barbara; KACZURBA, Elzbieta

Studies on the demonstration of O and Vi antigens in paper electrophoresis with the aid of histochemical staining methods. Med.dosw. mikrob. 13 no.4:337-343 '61.

1. Z Centralnego Laboratorium Zjednoczenia Wytworni Surowic i Szczepionek "Biomed" w Warszawie.

(ANTIGENS) (ELECTROPHORESIS)

KACZYNSKA, Czeslawa

Forest associations of the Miloslaw region Wrzesnia District.  
Biologia Poznan no.5:3-46 '64.

1. Department of Plant Taxonomy and Geography of the A.  
Mickiewicz University, Poznan.



KACZYNSKA, H.; SROCZYNSKI, K.

~~Radio in pediatric hospitals.~~ Pediat.polska 24 no.10:881-885  
Oct 50. (GLML 20:5)

1. Of the Hospital imienia Jan Korcsak in Lodz.

KACZYNSKA, Wanda

Multiple cystic tuberculosis of the bones. Polski przeegl.radiol.  
19 no.2:71-78 Apr-June '55.

1. Z Zakladu Radiologii Lekarskiej Slaskiej A.M. w Zabrsu. Kierow -  
nik: prof.dr S.Jamnicki. Zabrze, Z.Rad.Lek.A.M. 3 Maja 15.  
(TUBERCULOSIS, OSTEOARTICULAR, in infant and child  
multiple, pseudocystic, pathol.)

KACZYNSKA, Wanda

Granuloma eosinophilicum. Polski tygod. lek. 11 no.24:1081-1084  
11 June 56.

1. Z Zakladu Radiol. Lekars. Sl. A. M. Zabrsu; kier. prof. dr  
Stanislaw Januszkiewicz. Zabrze, Zakl. Radiol. Lek. Sl. Akad. Med. ul.  
3 maja 15.

(EOSINOPHILIC GRANULOMA, case reports,  
(Pol) )

KACZYNSKA, Wanda

Osteoid osteoma. Polski tygod. lek. 11 no.30:1326-1328  
23 July 56.

1. Z Zakladu Radiologii Lekarskiej Sl. A.M. w Zabrsu; kierownik:  
dr. Stanislaw Januszkiewics. Zabrze, Zakl. Radiol. Lek. Sl. Ak.  
Med. ul. 3 Maja 15.

(OSTEOMA, OSTEOID, case reports,  
(Pol))

KACZYNSKA, Wanda; JANUSZKIEWICZ, Stanislaw

Early stages of congenital pseudoarthrosis of the shin in the radiological picture. Polski przegl. chir. 30 no.10:1035-1038 Oct 58.

1. Z Zakladu Radiologii A. M. w Zabrzu Kierownik: prof. dr St. Januszkiewicz oraz z Instytutu Onkologii w Gliwicach Kierownik: dr J. Swiecki  
Adres autorow: Zabrze, Zaklad Radiologii A. M.

(PSEUDOARTHROSIS

shin, congen., early x-ray aspects (Pol))

(TIBIA, dis.

pseudoarthrosis of shin, congen., early x-ray aspects (Pol))

KACZYNSKA, Wanda

Gastric angioma. Polski przegl. radiol. 23 no.3:165-167 May-June 59.

1. Zaklad Radiologii A.M. w Zabrze. Kierownik: prof. dr St. Januszkiewicz.  
(ANGIOMA, case reports,  
stomach (Pol))  
(STOMACH NEOPLASMS, case reports,  
angioma (Pol))

KACZYNSKA, Wanda

Osseous changes associated with angiomas of the tegmen. Pat.polska  
10 No.4:523-530 Q-D '59.

1. Zaklad Radiologii Lekarskiej Slaskiej Akademii Medycznej. Kie-  
rownik: prof.dr. St. Jamszkievics.

(HEMANGIOMA pathol.)

(BONE AND BONES pathol.)

(SKIN neopl.)

KACZYNSKA, Wanda

On the problem of the radiological picture of benign chondroblastoma.  
Polski przegl.radiol. 24 no.2:97-100 Mr-Ap '60.

1. Zaklad Radiologii Lek. Sl. A.M. Zabrze, ul. 3 Maja 15. Kierownik:  
prof.dr St. Jannaskiewics.

(CHONDROBLASTOMA radiogr.)

(TALUS neopl.)

(HUMERUS neopl.)



KACZYNSKA, Wanda; MILLER, Wieslaw

Cardiomegaly in fibro-elastic thickening of the endocardium as a cause of total atelectasis of the left lung. Pediat. pol. 37 no.11: 1195-1201 '62.

1. Z Kliniki Chorob Dzieci Slaskiej AM Kierownik: prof. dr med.  
A. Chwalibogowski.

(ENDOCARDIAL FIBROELASTOSIS) (ATELECTASIS)  
(HEART ENLARGEMENT)

KACZYNSKA, Wanda, ZAREBA, Jerzy

A case of mandibulofacial dysostosis in a 3-month-old infant. *Pediat. pol.* 39 no.1:61-64 Ja'64

1. Z Kliniki Choroż Dzieci AM w Zabrzcu; Kierownik: prof. dr. med. A.Chwalibogowski.

\*

KACZYNSKA, Wanda

Transposition of the spleen in the light of our observations.  
Pol. przegl. radiol. 28 no.2:161-166 Mr-Apr '64.

1. I Klinika Chirurgiczna Sz. Akademii Medycznej w Poznaniu  
(Kierownik: prof. dr. S. Szyszko).

KACZYNSKA-WINID, Jadwiga

Research works on the humid tropics sponsored by UNESCO. Przegl  
goegr 35 no.2:259-266 '63.

KACZYNSKI, A.; SOKOLOWSKI, A.

                      
Ambulatory treatment of chronic rheumatoid arthritis with lasopy-  
ridine. Polski tygod.lek. 5 no.47-48:1658-1660 27 Nov 50.

(CJML 20:6)

1. Of the Health Insurance Office Rheumatic Station in Krakow and of  
the Central Consultation Office for Rheumatism in Krakow.

KACZYNSKI, C.

KACZYNSKI, C. A partial catch of descending eels with hampers. p. 10.  
Vol. 8, no. 12, Dec. 1956. GOSPODARKA RYBNA. Warszawa, Poland.

SOURCE: East European Accessions List (FEAL) Vol. 6, No. 4--April 1957

OSTROWSKI, Andrzej; KACZYNSKI, Henryk

Bronchoscopy as a diagnostic method in primary pulmonary tumors.  
Gruslica 24 no.10:1036-11048 Oct 56.

1. Z Oddziału Ftysjochirurgii w Sanatorium Bukowiec Ordynator:  
dr. med. S. Warasewski. Dyrektor: dr. M. Sobek. W Państwowym  
Zespole Sanatoriów Przeciwgrusliczych w Kowarach. Sanatorium  
Przeciwgruslicze Bukowiec Kowary k/Jeleniej Gory.

(LUNG NEOPLASMS, diagnosis,  
bronchoscopy (Pol))

(BRONCHOSCOPY, in various diseases,  
lung neoplasms (Pol))

Kaczynski, L.

POL.

3140

621 45 010

Kaczynski L. Detonation Combustion and Jet Engines

"Spalanie detonacyjne a silniki odrzutowe". Technika Lotnicza. No. 5, 1953, pp. 126-131, 19 figs., 3 tabs.

The phenomenon of clean stroke wave, and the thermodynamic factors of its parameters. Description of detonation combustion of the air-gas mixture from the point of origin. Experimental methods of examining detonation combustion. Pulsation phenomena in detonation combustion. Spontaneous combustion, and pulsation and flow engines. The author draws attention to the necessity of research over the problem of increasing the stroke waves, diffusing the fuel at supersonic speeds, and other factors. He emphasizes the present paucity of even theoretical achievements in designing detonating engines.

Int. J. Eng.



KACZYNSKI, Lech (Warszawa)

Experimental testing of the criteria of combustion stability  
while using disk type flame holders. Archiw bud masz 10 no.  
4: 305-321 '63.

KACZYNSKI, Lech, mgr inz.

Stability tests of combustion with flame stabilizers. Inst  
lotn prace no. 21: 3-14. '63.

KACZYNSKI, M.

Significance of dialectic materialism in the development of psychiatry. Polski tygod. lek. 5 no. 47-48:1636-1640. 27 Nov (CINL 20:6) 50.

KACZYNSKI, Mieczyslaw

Resignation reactions during neuroses. Neur. &c. polska 6 no.6:  
823-830 Nov-Dec 56.

1. Z Kliniki Psychiatrycznej A.M. w Lublinie Kierownik: prof. dr.  
M. Kacynski.

(NEUROSES, manifest.

resignation reactions (Pol))

*KACZYNSKI, Mieczyslaw*  
KACZYNSKI, Mieczyslaw

Symptomatology of early schizophrenia. Neur. &c. polska 7 no.4:505-511  
July-Aug 57.

1. Z Kliniki Psychiatrycznej A. M. w Lublinie. Kierownik: prof. M.  
Kaczynski.

(SCHIZOPHRENIA, in inf. & child  
symptomatol. (Pol))

KACZYNSKI, Mieczyslaw (Inblin, Abramowice Klin. Chor. Psychicznych)

Psychological changes in treated schizophrenia. Polski tygod. lek.  
13 no.31:1187-1189 4 Aug 58.

1. Z Kliniki Chorob Psychicznych A. M. w Inblinier; kierownik: prof.  
dr M. Kaczynski.

(SCHIZOPHRENIA, psychol.

changes in patients treated with insulin or chlorpromazine  
(Pol))

(INSULIN, ther. use

schizophrenia, post-ther. psychol. changes (Pol))

(CHLORPROMAZINE, ther. use

same)

KACZYNSKI, Mieczyslaw

Complex investigations on early schizophrenia. Ann.Univ.Lublin;  
sec.D 14:233-247 '59.

1. Z Katedry Kliniki Chorob Psychicznych Wydziału Lekarskiego  
Akademii Medycznej w Lublinie Kierownik: prof. dr med.  
Mieczysław Kaczynski.  
(SCHIZOPHRENIA)

KACZYNSKI, Mieczyslaw

Changes of character in early schizophrenia. Neurol. neurochir.  
psychiat. pol. 12 no.4:545-549 '62.

1. Z Kliniki Chorob Psychiczych AM w Lublinie-Kierownik: prof.  
dr M. Kaczynski.

(SCHIZOPHRENIC PSYCHOLOGY)



KACZYNSKI, M.; BERNASKIEWICZ, E.; WYPYCH, M.; WOJNICKA, H.

Levels of sialic acid, cholinesterase and some electrolytes in treated early schizophrenia. Pol. tyg. lek. 19 no.28:1074-1075 13 - 20 J1 '64.

1. Z Kliniki Chorob Psychiczych Akademii medycznej w Lublinie;  
kierownik: prof. dr. Mieczyslaw Kaczynski.

KACZYNSKI, Mieczyslaw; KEDRA, Mieczyslaw

Pulmonary edema in morphine withdrawal syndrome. Pol. tyg. lek.  
19 no.28:1111-1112 13 - 20 J1'64

1. Z Kliniki Psychiatrycznej Akademii Medycznej w Lublinie  
(kierownik: prof. dr. M. Kaczynski) i z I Kliniki Chorob  
Wewnetrznych (kierownik: prof. dr. M. Kedra).

KACHINSKIY, N.A. [Kaczynski, N.A.]

Physicomechanical properties of the soil as a new factor  
characterizing the type of soil and determining the conditions  
for the work of agricultural machinery. Roczniki nauk rolniczych  
87 no.2:183-199 '63.

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KACZYNSKI, Olgierd

Review of rewarded works. Architektura Pol no.1:12-22 '62.

1338

024.026.25 : 693.45

Kaczyński S. Mass Production of Prefabricated Stairs.

"Upzemysłowienie produkcji schodów". Przegląd Budowlany. No. 10. 1954, pp. 299-302, 4 figs., 5 tabs.

Castling, when used to replace concrete stairs, has many disadvantages. It is a prolonged process dependent on weather conditions and necessitating a lot of timber for shuttering and shorings. Such techniques can be satisfactory only when single buildings are being constructed. However, in the case of the nationalized building industry, the construction sites are numbered in thousands and the old methods have been found inadequate. To begin with, precasting of stairs was started on an experimental scale. Several types of such stairs were developed. Prefabrication of stairs saves considerable quantities of steel and concrete, and reduced timber requirements to nil.

KACZYNSKI, Stefan, inż.

Modernization of the technology of construction works during the winter season. Przegl budowl i bud mieszk 27 [i.e. 37] no.3: 174-175 Mr '65.

1. Institute of Construction Engineering, Warsaw.

BRUTUS, L., otv. red.; ANTONS, R., akademik, red.; KADA, A.,  
red.; RAUD, A., red. [deceased]; TULP, L., red.;  
KIVILA, H., red.; RIISENBERG, A., tekhn. red.

[Materials of the Republic Scientific Economic Conference]  
Vabariikliku majandusteadusliku konverentsi materjalid.  
Tallinn, Eesti NSV Teaduste Akadeemia Majanduse Instituut,  
1962. 171 p. (MIRA 17:1)

1. Vabariiklik majandusteaduslik konverents, Tallinn, 1960.
2. Eesti NSV Teaduste Akadeemia (for Antons).  
(Estonia--Economics)



RAKOVSKIY, V.Ye.

SHIMANSKIY, V.S.; RAKOVSKIY, V.Ye.; ZHURAVIEVA, A.N.; KADACH, M.V.

Use of peat tar from the Stalin Glass Works in road construction.  
Trudy Inst.torf. AN BSSR no.2:173-185 '53. (MIRA 8:11)  
(Tar) (Peat)

KADACH, M.V.

USSR

2228. GASIFICATION OF PEAT IN SMALL CYLINDRICAL PIECES. Kozlov, A.P., Nikomirovich, K.A., Babits, A.S., Pal, B.S. and Kadach, M.V. (Tert. Pech. (Peat Ind. Moscow), June 1954, 21-23.). Some figures are given for an experimental gasification, with a mixed air and steam blast, of peat cylinders 55 mm in diameter by 110 mm long instead of the usual 300 by 120 mm and 75 mm soda. The process was accelerated, but peat moisture and steam supply were not constant. (L.).

INST. of Peat. Acad. Sci BSSR

KADACH, M.V.; BEL'KEVICH, P.I.; RAKOVSKIY, V.Ye.

Refining of peat wax. Trudy Inst. torfa AN BSSR 7:139-147  
'59. (MIRA 14:1)  
(Peat) (Waxes)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53640

Author : Kadacheva, L.S.

Inst : Far Eastern Scientific Institute for Agriculture

Title : Valuable Local Onion Varieties.

Orig Pub : Byul. nauchno-tekhn. inform. Dal'nevost. n.-i. in-ta  
s. kh. 1957, 3, 20-22

Abstract : The study of onion varieties gathered from different regions of the Far East, showed their great adaptability to the local soil and climatic conditions, and their increased resistance to deterioration. The local varieties are distinguished by a short vegetative period, by numerous sprouts, pungent taste and by a firm structure of the bulbs. The widely distributed top onion propagates by the division of the bulb according to the

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LARIONOV, K.A., prof.; KADACHIGOV, V.M., prof.; KUZHELEV, N.S., dotsent;  
LOPUKHOV, L.S., dotsent; TIKHONOV, I.A., prof.; TSAPKIN, N.V.,  
dotsent; CHESNOKOV, P.A., dotsent. V redaktirovanii prinimal  
uchastiye BOYKOV, S.I.. AZAROV, B.K., red.; LEVONEVSKAYA, L.G.,  
tekhn.red.

[Political economy; textbook for students of economic theory]  
Politicheskaya ekonomiya; posobie v pomoshch' izuchaiushchim  
voprosy ekonomicheskoi teorii. Leningrad, Lenizdat, 1960.  
362 p. (MIRA 13:7)

(Economics)

KADACHIGOV, V.M., prof.; YEGOROVA, K.I., red.; ONOSHKO, N.G., tekhn. red.

[Inexhaustible spring; collection of articles on the development of socialist competition in enterprises of the Vyborgskaya Storona in Leningrad] Neissikaemyi rodnik; sbornik statei o razvitii sotsialisticheskogo sporevnovaniia na predpriatiiakh Vyborgskoi storony Leningrada. Leningrad, Lenizdat, 1961. 134 p. (MIRA 14:9)

1. Kafedra politicheskoy ekonomii Leningradskogo politekhnicheskogo instituta im. M.I. Kalinina (for Kadachigov).  
(Leningrad—Socialist competition)

LARIONOV, K.A., prof.; KADACHIGOV, V.M., prof.; KUZHELEV, N.S.,  
dots.; LOPUKHOV, L.S., dots.; TIKHONOV, I.A., prof.;  
TSAPKIN, N.V., prof.; CHESNOKOV, P.A., dots.;  
KASHUTIN, P.A., dots., red.; MITINA, M., red.;  
KOROLEVA, A., mlad. red.; MOSKVINA, R., tekhn. red.

[Economics] Politicheskaya ekonomia; uchebnoe posobie.  
Moskva, Sotsizgiz, 1963. 430 p. (MIRA 16:9)  
(Economics)

KADAGIDZE, G.I. (Tbilisi)

Potentials for the acceleration of car turnover put into action.  
Zhel.dor.transp. 45-223-7 0 '63. (MIRA 16:11)

1. Nachal'nik Zakaznykh dorogi.



KADAGIDZE, G.I. (Tbilisi)

Possibilities of accelerating electrification. Zhel.dor.transp. 46  
no.11:28-30 N '64. (MIRA 18:1)

1. Nachal'nik Zakavkazskoy dorogi.

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.;  
MAGRADZE, K.G., dotsent; POCHKHUA, P.E.; CHOCHUA, D.V., kand.  
med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I.,  
kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE,  
A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE,  
V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI,  
G.G., kand. med. nauk, [deceased]; KENCHADZE, I., kand. med. nauk;  
ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk;  
DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I  
and II) with biocillin-1 and biocillin-3. Vest. derm. i ven.  
no.1:56-61 '65. (MIRA 18:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskoy  
institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-  
venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo  
instituta usovershenstvovaniya vrachey.

KADAGIDZE, Kimo Nikolayevich.

[German-Georgian mathematical dictionary] [Nemetako-gruzinskii matematicheskii slovar']. Tbilisi, Gos.izd-vo "TSodna" 1963. 150 p. [In Georgian] (MIRA 17:4)

KADAK, A. Yu.

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,  
p 165 (USSR)

14-57-6-12977

AUTHORS: Kadak, A. Yu., Rannak, L. A.

TITLE: Development of an Active Fishing Industry in the Open  
Water of the Northeastern Baltic Sea (O razviti  
aktivnogo rybolovstva v otkrytykh vodakh severo-  
vostochnoy chasti Baltiyskogo morya)

PERIODICAL: Izv. AN EstSSR, ser. obshchestv. n., 1956, Vol 5,  
Nr 3, pp 232-234

ABSTRACT: Total amount of fish caught in Estonia in 1955 exceeded by  
215 times the catch of 1939. In 1955 active fishing  
methods accounted for 61 thousand centners of fish  
(12 percent of the total catch); the remainder was  
caught by passive techniques at spawning time. The  
authors discuss the necessity of expanding active  
fishing techniques in the open sea.

Card 1/1

ACC NR: AP6035829

APPROVED FOR RELEASE: 07/19/2001 CODE: CIA-RDP86-00513R000519820015-0

INVENTOR: Gol'dat, S. Yu.; Sokolova, R. V.; Firsova, A. P.; Kadakova,  
L. P.; Parfenova, A. I.; Karakishisheva, T. I.; Stepanova, N. V.

ORG: none

TITLE: *Actinomyces aureofaciens* strain LSB-181, producing chlortetra-  
cycline and tetracycline. Class 30, No. 187242. [Announced by All-  
Union Scientific Research Institute for Antibiotics (Vsesoyuznyy nauchno-  
issledovatel'skiy institut antibiotikov)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20,  
1966, 104

TOPIC TAGS: antibiotic, drug, *Actinomyces aureofaciens*, chlortetra-  
cycline, tetracycline

ABSTRACT: An Author Certificate has been issued for strain LSB-181 of  
*Actinomyces aureofaciens*. Light-sensitive mycelia in 5—6 mm colonies  
appear on its tenth day of growth on no. 12 organic agar medium at 28C.  
On no. 11 synthetic medium, dirty-white colonies 2.5—3 mm in diameter  
appear, and on pea medium, brown, raised, wrinkled, as porulating col-  
onies seven mm in diameter are found. Milk is completely peptonized  
on the tenth day, and coagulation is noted on the 15th day, at which

Card 1/2

UDC: 615.45:615.779.931

ACC NR: AP6035879

time the gelatin is also slightly liquified. The sporophores lack coils, and spores are rectangular and oval. Activity in laboratory conditions on regulation media with corn extract is of the order of 5000—5600 j/ml. Also, this strain is resistant to actinophages 22 and 22a. [WA-50]

SUB CODE: 06/ SUBM DATE: 28May65

Card 2/2

KADALA, M.

Soviet-Hungarian trade develops successfully. Vnesh. torg. 42  
no.8:7-10 '62. (MIRA 15:9)

1. Nachal'nik Upravleniya po torgovle s SSSR i stranami Dal'nego  
Vostoka Ministerstva vneshney torgovli Vengerskoy Narodnoy  
Respubliki.

(Russia—Commerce—Hungary) (Hungary—Commerce—Russia)

GOL'DAT, S.Yu.; SOKOLOVA, R.V.; KADAKOVA, L.P.

Induced and natural variation in *Actinomyces spheroides* (*Streptomyces spheroides*) which produces novobiocin. Antibiotiki 9 no.3:211-217 Mr '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

ACC NR: AP6035879 (A<sub>1</sub>N) SOURCE CODE: UR/0413/66/000/020/0104/0104

INVENTOR: Gol'dat, S. Yu.; Sokolova, R. V.; Firsova, A. F.; Kadakova, L. P.; Parfenova, A. I.; Karakishisheva, T. I.; Stepanova, N. V.

ORG: none

TITLE: *Actinomyces aureofaciens* strain LSB-181, producing chlortetracycline and tetracycline. Class 30, No. 187242. [Announced by All-Union Scientific Research Institute for Antibiotics (Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov)]

SOURCE: Izobreteniya, promyshlennyye obrastey, tovarnyye znaki, no. 20, 1966, 104

TOPIC TAGS: antibiotic, drug, *Actinomyces aureofaciens*, chlortetracycline, tetracycline

ABSTRACT: An Author Certificate has been issued for strain LSB-181 of *Actinomyces aureofaciens*. Light-sensitive mycelia in 5—6 mm colonies appear on its tenth day of growth on no. 12 organic agar medium at 28C. On no. 11 synthetic medium, dirty-white colonies 2.5—3 mm in diameter appear, and on pea medium, brown, raised, wrinkled, as porulating colonies seven mm in diameter are found. Milk is completely peptonized on the tenth day, and coagulation is noted on the 15th day, at which

Card 1/2

UDC: 615.45:615.779.931



ACC NR: AP6035879

time the gelatin is also slightly liquified. The sporophores lack coils, and spores are rectangular and oval. Activity in laboratory conditions on regulation media with corn extract is of the order of 5000—5600 j/ml. Also, this strain is resistant to actinophages 22 and 22a. [WA-50]

SUB CODE: 06/ SUBM DATE: 28May65

Card 2/2

KADAMOV, S. K.

USSR / Cultivated Plants. Fodder Grasses and Edible  
Roots.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24948

Author : Kadamov, S. K.

Inst : Uzbek Scientific-Research Institute of  
Animal Husbandry

Title : An Experiment of Cultivating Edible Roots on  
Bogara Soil [Bogara is a designation for  
crops grown in Central Asia without artificial  
irrigation]

Orig Pub : Tr. Uzb. n.-i. in-ta zhivotovodstva, 1957,  
vyp 2, 73-76

Abstract : From the year of 1953, in the experimental  
farm "Krasniy Vodopad" [the Red Waterfall],  
a test on growing fodder and sugar beets was  
conducted on the pre-Tashkent bogara. Sowing

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APPROVED FOR RELEASE: 07/19/2001

periods from June until October, indicated  
that the winter sowing periods are best,  
because the moisture reserves are best utilized  
at this time. The maximal harvest (sum of  
the tops and edible roots) is timed to the  
10 July and consists of 150 c/ha of roots and  
123 c/ha of tops. The maximal harvest of  
edible roots to the 10 August consists of  
166 c/ha; after the first decade of August,  
a deficiency takes place in the weight of

CIA-RDP86-00513R000519820015-0"

Card 2/3

USSR / Cultivated Plants. Fodder Grasses and Edible  
Roots.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24948

both the roots and the tops. The harvest  
of the sugar beet to the 10 July consisted  
of 10 c/ha of the roots and 70 c/ha of the  
tops; to the 10 August, the harvest of the  
roots consisted of 107 c/ha. -- V. S. Rudneva

KADAMOV, S. K.

USSR/Cultivable Plants - Grains.

N-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10770

Author : Kadamov, S.K.

Inst

Title : An Experiment in the Hybridization of Dzhugara Sorghum

Orig Pub : Zhivotnovodstvo, 1957, No 3, 79-82.

Abstract : No abstract.

Card 1/1

ners/hectare. According to the content of basic protein  
and fat, non-nitrogenous substances that were extracted

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820015-0"

KADANER, D.G.		PROCESS AND PROPERTIES INDEX	
7			
<p>Determination of active hydrogen by Orignard reagents in a carbon dioxide atmosphere. V. Determination of moisture in technical products. A. P. Tarent'ev, D. G. Kadanev, and Yu. K. Kopylova (Moscow State Univ., J. Gen. Chem. (U.S.S.R.) 17, 913-16(1947); cf. C.A. 42, 108g.—The active H data. by the T. and Shcherbakov method (C.A. 41, 1878g) was applied successfully to detg. moisture in tech. products. MeMgl was well adapted for this work, but MeMgl was less satisfactory. The former was used in 2.5 N concn. in dry H<sub>2</sub>O. Place 0.1-0.05 g. of sample in the reaction flask, cover with 1-3 cc. dry H<sub>2</sub>O, and carry out the detn. as previously described. Activated charcoal gave, after satn. with H<sub>2</sub>O by vapor, 10.3% H<sub>2</sub>O by drying at 100-10°, 19.0% H<sub>2</sub>O by drying over H<sub>2</sub>SO<sub>4</sub>, and 22.03-22.3% H<sub>2</sub>O by the MeMgl method. Charcoal heated to 800° failed to show H<sub>2</sub>O by any method. Clay samples from various sources, after drying at room temp., gave 12.4-12.8% H<sub>2</sub>O by the Grig. method; drying at 120° gave 2.15-2.80% H<sub>2</sub>O. Similar detn. of moisture in corn starch gave 10.3-10.60%. Benzene, satd. with H<sub>2</sub>O, also gave concordant results ranging from 0.0188 to 0.0193 g./100 cc.</p> <p>G. M. Kosolapoff</p>			
<p>AD-11A METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>SEARCHED INDEXED SERIALIZED FILED</p>			
<p>NOV 1947</p>			

KADANER, D.G.; LUK'YANOVICH, V.M.; RADUSHKEVICH, L.V.

Adsorption and capillary condensation of vapors on nonporous carbon  
black. Doklady Akad.Nauk S.S.S.R. 87, 1001-4 '52. (MLRA 5:12)  
(CA 47 no.14:6734 '53)

DEDKOV, Yu.M.; KADANER, D.S.; PISARENKO, N.D.; RYABOVA, A.S.; SAVVIN, S.B.

Determination of zirconium in cast iron with chlorosulfophenol  
C as reagent. Zav. lab. 30 no.6:654-655 '64 (MIRA 17:8)

1. Nauchno-issledovatel'skiy i proyektno-tekhnologicheskoy in-  
stitut mashinostroyeniya.

SAVVIN, S.B.; KADANER, D.S.; RYABOVA, A.S.

Photometric determination of zirconium in steel and cast  
iron using arsenazo III. Zhur. anal. khim. 19 no.5:561-569  
'64. (MIRA 17:8)

1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo  
AN SSSR i Nauchno-issledovatel'skiy i proyektno-tekhnologicheskoy  
institut mashinostroyeniya, Kramatorsk.

DESYATCHIKOV, B.A., kand. ekon. nauk; GABZAILOV, G.F., kand. ekon. nauk; KADYROV, Z., nauchn. sotr.; ABDUSHUKUROV, T.; KALIYAKIN, P.V., kand. ekon. nauk; FOKIN, A.I., kand. ekon. nauk; BAKIYEVA, R.A., nauchn. sotr.; IERAGIMOV, M., nauchn. sotr.; KARDASI, A.A., kand. ekon.nauk; KADANER, E.A.; NIKONOV, F.D., nauchn. sotr.; ANTONETS, G.M.; ARTYKOV, A.A., kand. ekon. nauk; TRUSOV, A.N.; OVCHAROVA, M.A., nauchn. sotr.; TSOY, P., nauchn. sotr.; ~~KALIYAKIN, P.V., kand. ekon. nauk, otv. red.~~; DZHAMALOV, O.B., doktor ekon. nauk, red.; ARTYKOV, A., kand. ekon. nauk, red.; DESYATCHIKOV, B.A., kand. ekon. nauk, red.; SHARIFKHODZHAYEV, M., kand. ekon. nauk, red.; DESYATNIK, F.M., red.; GOR'KOVA, Z.P., tekhn. red.

[Economics of the machinery manufacture of Uzbekistan] Ekonomika mashinostroeniia Uzbekistana. Tashkent, Izd-vo AN Uzb.SSR, 1963. 289 p. (MIRA 16:12)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki. (Uzbekistan--Machinery industry)



KADANE, E. C.

CA

9

Dependence of microhardness of structural components on composition in several binary cast alloys. A. M. Korol'kov and E. M. Kadanev. *Doklady Akad. Nauk S.S.S.R.* 74, 371-4 (1950).—An exptl. study was made to correlate the Brinell macrohardness (50 kg., 5 mm. ball) of stabilized and of homogenized alloys of Al plus 0-10% Ni, Al plus 0-10% Mn, Pb + 0-40% Sb, and Sn + 0-40% Sb with the PMT-3 microhardness (10 g.) of the primary phases and of the eutectic structure. A long time homogenizing treatment just below the solidus temp. decreased all hardness values except the microhardness of the hypereutectic primary phases which had the values Al-Ni 523-551, Al-Mn 308-380, Sb solid soln. 90-96,  $\beta'$  Sn-Sb 61.5-72. The microhardness of the primary solid solns. increased even into the 2-phase region in the alloys stabilized for about 100 hrs. at 300° (for the Al-base alloys) or at 100°, thus showing the presence of heterogeneity. The microhardness of the eutectic was above that of the primary solid soln. and remained essentially const. far into the hypereutectic region. The high hardness of the intermetallic compd. in the eutectic would have an effect when the amt. of compd. reached about 50%.  
A. G. Guy

1957

Evaluation B-78539, 7 Sep 54

*KADANER, E. S.*

USSR/Engineering - Metallurgy

FD-812

Card 1/1 : Pub. 41 - 4/17

Author : ~~Bochvar~~ Bochvar, A. A., Drits, M. E., and Kadaner, E. S.

Title : The influence of boundary zones, containing low-melting components, on the results of determination of heat-resistance of alloys by various methods of deformation

Periodical : Izv. AN SSSR Otd. tekhn. nauk, 2, 42-45, Feb 1954

Abstract : Studies heat resistance of Mg--Mn alloys with additions of Sn, Pb, and Cd, using the tensile method and the indentation hardness method. Shows that for accurate results the indentation hardness method, when used to test alloys containing low-melting elements, must be supplemented by the tensile method. Tables, graphs.

Institution :

Submitted : February 11, 1954

*Evaluation B-81524*

KOROL'KOV, A.M., kandidat khimicheskikh nauk; KADANER, E.S.

Anomalous cases of linear shrinkage of alloys resulting from  
changes of their composition. Issl. splav. tsvet. met. no.1:  
54-58 '55. (MLRA 9:10)

(Alloys--Metallography)

KADANER, E. S.

✓ The application of radioisotopic method to the structure studies of magnesium alloys. M. R. Idris, Z. A. Sneider, and E. S. Kadaner. *Zashchita* Lab. 21, 831-3 (1958).—The structure of Mg alloys was studied after the addn. of small amts. of a Ca isotope to the alloy, because the dendritic structure of Mg could not be revealed by etching.  
W. M. Sternberg

Inst. Metallurgy im. Baykov, AS USSR *Sm Df* (2)

KADANER, E.S.

Category : USSR/Solid State Physics - Phase Transformation in Solid Bodies E-5

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3843

Author : Drita, M.Ye., Sviderskaya, Z.A., Kadaner, E.S.

Title : Investigation of the Structure of Magnesium Alloys Containing Calcium,  
Using Radiographic Methods

Orig Pub : Issledovaniya po zharoprochnym splavam. M., AN SSSR, 1956, 84-90

Abstract : Using  $\text{Ca}^{45}$  (2-3 millicurie/kg of alloy), a radiographic investigation was made on the macro and micro structures of the following alloys: Mg-Ca, Mg-Mn-Ca, Mg-Mn-Al-Ca. The macrostructure of the alloys, exhibited after an exposure of 5-6 days on "XX" x-ray film, indicates that the crystallization has a dendrite character. Increasing the Ca content increases the irregularity of its distribution in the alloy. The microstructure was investigated using specimens 100-200 microns thick with the aid of MR nuclear plates after 10-15 days' exposure. Magnifications (up to x750) were obtained with a metallographic microscope using transmitted light. The calcium in the Mg-Ca alloys is concentrated in the interaxial space. Casting the alloys in a heated metallic mold gives a more uniform distribution of the calcium, than casting in sand. An investigation of the

Card : 1/2

*Inst. Metallurgy in Baykov*

Category : USSR/Solid State Physics - Phase Transformation in Solid Bodies E-5

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3843

dendrite structure in various kinds of heat treatments has disclosed optimum conditions for homogenization of triple and quadruple alloys, the diagrams of which are unknown. It is shown that annealing at 600° for 24 hours removes the texture of a hot-rolled alloy.

Card : 2/2

KADANER, E.S.

137-58-3-6222 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 254 (USSR)

AUTHOR: Kadaner, E.S.

TITLE: Employment of a Quantitative Autoradiography Method for Investigation of Microstructural Nonhomogeneity in Light Alloys (Primeniye metoda kolichestvennoy avtoradiografii dlya issledovaniya mikroneodnorodnosti legkikh splavov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the In-t metallurgii AN SSSR (Institute of Metallurgy, Academy of Sciences, USSR), Moscow, 1957.

ASSOCIATION: In-t metallurgii AN SSSR (Institute of Metallurgy, Academy of Sciences, USSR), Moscow

Card 1/1

KADANER, E.S.

SVIDERSKAYA, Z.A.; DRITS, M.Ye.; KADANER, E.S.

Use of radioactive isotopes in studying microheterogeneity of  
magnesium alloys. Trudy Inst.met.AN SSSR no.1:249-257 '57.  
(MIRA 10:11)

(Magnesium alloys) (Radioisotopes)



<sup>E</sup>  
KADANER, R.S., <sup>Cont.</sup> Master Techn Sci — (USSR) "The ~~active~~ use of the quantitative automatic radiography method for investigating the microscopic heterogeneities of light alloys. Moscow, 1957. 14 pp (AS USSR. Inst of Metallurgy im. Baykov), 110 copies (KL, No 39, 1957) 96

KADANER, E.S.

613

**AUTHORS:** Sviderskaya, Z.A., Drits, M.Ye., Candidates of Tech. Sc. and Kadaner, E.S., Ing. (Institute of Metallurgy, Ac.Sc. U.S.S.R. imeni A.A. Baykov).

**TITLE:** Influence of the speed of crystallisation on the micro non-uniformity of magnesium alloys. (Vliyaniye skorosti kristallizatsii na mikroneodnorodnost' magniyevykh splavov).

**PERIODICAL:** "Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.5, pp.23-29 (U.S.S.R.)

**ABSTRACT:** The structural micro non-uniformity of calcium containing magnesium alloys was investigated by using radioactive calcium and for establishing the relation between the speed of cooling of magnesium alloys and the intradendritic liquations, the method of quantitative autoradiography was utilised, which is based on determining the contents of the individual elements in the micro-volume of the alloy by photometering of radio-autographic exposures (11, 12). Characteristic curves were preliminarily plotted which express the relation between the intensity of radioactive radiation and the blackness density of photo emulsions. By means of these curves the ranges of blackening were measured for which there is a direct relation between the density of blackening and the

Card 1/1

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Influence of the speed of crystallisation on the micro non-uniformity of magnesium alloys. (Cont.)

concentrations of the radio-active calcium. The blackness density was measured at 500 points. The micro non-uniformities were studied on three series of castings for which a change in the speed of cooling was achieved by various methods; for one series binary magnesium and calcium alloys were cast into metal moulds which were pre-heated to various temperatures; the second and third series of castings consisted of quaternary magnesium-manganese-aluminium-calcium alloys for which a change in the cooling speed was achieved by using moulds of different materials or moulds of different cross sections. Fig.1 shows graphs of the blackness density for magnesium-calcium alloys; Fig.2 shows the distribution of the calcium for various cooling speeds; Fig.3 shows micro-radiograms of Mg-Mn-Al-Ca alloys cast into earthen moulds of various cross sections, whilst Fig.4 shows graphs of the dependence of the micro non-uniformities on the cooling speed. In the case of binary magnesium-calcium alloys, the curves do not pass through a maximum, i.e. the micro non-uniformity of the structure decreases continuously with increasing speed of cooling. Investigation of the microstructure of the investigated alloys indicates that in all cases the quantity of the

Card 2/3

Influence of the speed of crystallisation on the micro non-uniformity of magnesium alloys. (Cont.)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820015-0"

second phase was very small and, therefore, from the point of view of the structure the studied alloys were near to single-phase solid solutions. The fact that the photomentering of the micro-radiograms was carried out at relatively small magnifications and that the inclusions of the manganese component in Mg-Mn-Al-Ca alloys do not produce blackening on the micro-radiograms leads to the assumption that the derived relations reflect the character of the distribution of the calcium resulting from intra-crystallite liquations during crystallisation of the solid solution. The method of quantitative radiography permits not only evaluation of the scale of the observed micro non-uniformities during casting of Ca containing magnesium alloys but it also confirms experimentally the general character of the changes in the micro non-uniformity with changing cooling speeds. At an equal cooling speed various materials will have an inclination to a more or less developed dendritic crystallisation and this will obviously affect the micro non-uniformities which occur during solidification.. Change in the cooling speed will affect appreciably the heat resistance of the alloy. The highest ultimate strength will be obtained for medium cooling speeds, i.e. in the case of maximum heterogeneity of the cast alloy. 2 Tables, 4 Figures; 11 Russian and 1 English references.

Card 3/3

24-6-3/24

A study of the distribution of iron in aluminium using the method of autoradiography. (Cont.)

also within them. The introduction of iron into aluminium in larger quantities (up to tenths of a percent) leads to a break up of the grains and appearance of a clear dendritic structure with iron distributed in the interaxial spaces (Fig.1B). Fig.2 shows (for comparison) the microstructure of the same specimens, shown up by the usual etching. There is a practically total absence of solid solutions in the system Al-Fe, but a separation of the compound  $\text{FeAl}_3$  is observed in cast samples, beginning at thousandths of a percent. Two coefficients are defined:

$$K = (100-n)/100 \quad \text{and} \quad C = C_{\text{max}}/C_{\text{min}}$$

where  $n$  is the number of micro-volumes, per 100 measured micro-volumes, which have an iron concentration equal to the average iron concentration in the specimen;  $C$  is the ratio of the maximum to minimum concentrations of iron in separate micro-volumes in the region investigated. Photometric measurements were carried out using a micro-photometer having a square aperture of  $1 \text{ mm}^2$  and a magnification of 24 times.

Card 2/4

24-6-3/24

A study of the distribution of iron in aluminium using the method of autoradiography. (Cont.)

Fig.3 shows plots of the average number of cells (in %) versus iron concentration for three different mean concentrations (0.0085%, 0.19% and 0.74% Fe). Table 2 gives the values of K and C for various alloys, and a plot of K and C versus percentage of iron is given in Fig.4. Both K and C fall at first and then tend to reach a steady value. The "knee" of the C-curve corresponds to the change in the character of the distribution of iron in aluminium as can be seen by comparing Figs. 1B, 1a and 1c. The effect of prolonged heating at 605 C (up to 100 hours) is shown in Figs. 5 and 6. In Fig.5, K and C are plotted versus heating time in hours. Fig.6 shows microradiograms of Al + 0.194% Fe after heating at 605 C for 50 and 100 hours respectively. All the data indicate that the micro-nonuniformity in the distribution of iron in aluminium, which is produced during the process of crystallisation, is very stable and is not much affected by homogenizing treatment. The large size of the surfaces of division at which the evolution of the intermetallic compound  $FeAl_3$  takes place produce favourable conditions for blocking sliding processes which develop as a result of plastic deformation and this apparently has a

Card 3/4

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820015-0"

A study of the distribution of iron in aluminium using the method of autoradiography. (Cont.)

favourable influence on the creep resistance of aluminium and aluminium alloys in presence of iron. There are 6 figures, 3 tables and 6 references, 5 of which are Slavic.

SUBMITTED: February 26, 1957.

Card 4/4

KADANER, E. S.; DRITS, M. Ye.: SVIDERSKAYA, Z. A. and VASHCHENKO, A. A.

"Magnesium Alloys for Performance at Elevated Temperatures"

Light Alloys. no. 1: Physical Metallurgy, Heat Treatment, Casting, and Forming;  
Principal Reports of the Conference, Moscow, Izd-vo AN SSSR, 1958. 497 P.

(2nd. A.U. Conf on Light Alloys, 1955)

*KADANER, E.S.*

AUTHORS: Drits, M.Ye, Kadaner, E.S. and Sviderskaya, Z.A. (Moscow) 24-2-20/28

TITLE: Influence of the micro non-uniformity of alloys on their behaviour at elevated temperatures. (Vliyaniye mikro-neodnorodnosti splavov na ikh povedeniye pri povyshennykh temperaturakh).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, No.2, pp. 139-142 (USSR).

ABSTRACT: Bochvar (Refs.1 and 2) has pointed out that heterogenisation of the structure determined by the distribution and the shape of the separations of the hardening phases and insoluble admixtures are important for ensuring a high heat resistance of cast alloys. The authors made an attempt to investigate the influence of structural micro non-uniformities on certain properties of magnesium and, particularly, of aluminium alloys at elevated temperatures. In the given case the micro non-uniformity is understood to be the total non-uniformity in the distribution of one or another of the alloying elements and in the micro-volumes of the solid solution as well as in insoluble secondary crystallising phases. On the basis of results obtained with radio-active tracers and quantitative autoradiography, the degree of micro

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non-uniformity of the alloys is characterised by two coefficients  $K$  and  $C$  which are calculated from the frequency distribution curve as described in an earlier paper of the authors (Ref.3). On the example of an alloy of the system Mg-Mn-Al-Ca the influence was investigated of distribution of Ca on the heat resistance and the ductility, since small additions of Ca have a great influence on the mechanical and the heat resistance characteristics of these alloys. The micro non-uniformity of the alloy was changed by changing the crystallisation speed during casting, using earth moulds of various cross sections. Radio-active calcium of a quantity of 2 to 3 mCu per kg was introduced. From the cast material specimens were produced for testing the long duration strength and the impact strength at 250°C. A quantitative evaluation of the micro non-uniformity and the relations governing the changes in the micro-non-uniformity with varying crystallisation speeds was made in earlier work of the author (Ref.3) for the same alloy under similar casting conditions. In the case

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under consideration, the Ca content amounted to 0.22%

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behaviour at elevated temperatures.

and the micro non-uniformity represented the non-uniform distribution of the Ca in the micro-volumes of the solid solution since the quantity of the second phase was very low and was detected microscopically only at magnifications of 800 to 1000 times. The results of these experiments are entered in Table 1 and graphed in Fig.1 (micro non-uniformity coefficients  $K$  and  $C$ , long duration strength  $\sigma_{100}$  kg/mm<sup>2</sup>, impact strength kgm/cm<sup>2</sup> as functions of the crystallisation speed during solidification, °C/min). The results of experiments aimed at determining the influence on the heat resistance of the redistribution of Ca in the structure caused by various conditions of deformation are entered in Table 2 and graphed in Fig.3 for reductions (by pressing) of 52, 76 and 86%. It can be seen that the change in the heat resistance under the influence of deformation is linked with the change of the micro non-uniformities; with increasing reductions the dendritic structure will be disrupted and the components of the alloy will be broken up into finer particles which leads to an intensification of the creep processes. Since the stability

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AUTHORS: Sviderskaya, Z. A., Drits, M. Ye., Kadaner, E. S.

TITLE: The Micro-Heterogeneity Variation in Alloys Subjected to Heating (Izmeneniye mikroneodnorodnosti spлавov pod vliyaniyem nagreva)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 2, pp. 311 - 313 (USSR)

ABSTRACT: S. T. Kishkin and S. Z. Bokshteyn (Reference 1) found that the homogenizing annealing of some alloys with nickel basis increases the inhomogeneity of the distribution of some elements and that it therefore also increases the heterogeneity of the structure of these elements. The authors of the present paper found analogous phenomena in the investigation of the kinetics of the processes of redistribution of the components in the annealing of some light alloys on the basis of aluminium and magnesium. The variations of the micro-homogeneity of the structure of alloys are represented graphically as function of different conditions of annealing. Such

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a diagram shows the curves for the variation of the coefficients of the microinhomogeneity of the binary alloys Al-Fe and Al-Ca with increasing duration of annealing at a temperature by 50°C below the solidus line. With both alloys the character of these curves is similar but the variations in the course of the curves occur, however, at a somewhat shorter duration of heating in the case of Al-Ca. A comparatively short arrest at the temperature of annealing reduces the coefficient of the micro-inhomogeneity and thereby balances the structure of the alloys. But with increasing duration of heating either an obvious increase of the degree of inhomogeneity or at least a noticeable tendency to such an increase are observed. The two alloys investigated belong to the binary systems with an almost completely lacking solubility in solid state. Therefore a remarkable amount of the second phase is present in the structure of the alloys in the case of given alloy limits. The here observed results speak in favor of a coincidence between the observed varia-

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tions of the structure of the alloys and the coefficients of the micro-inhomogeneity. An increase of the micro-inhomogeneity of the structure was found by the author of this paper also in the case of the alloys of magnesium with calcium. A further diagram shows the variation of the coefficients of the micro-inhomogeneity with increasing annealing temperature (duration of annealing was 24 hours) for the alloys Mg-Ca and Mg-Mn-Al-Ca. In both cases the heating of the alloys to 500°C strongly decreases the micro-inhomogeneity in the distribution of calcium, which speaks in favor of a great intensity of the redistribution processes occurring at this temperature. At certain conditions of annealing obviously a so-called "secondary heterogenization" of the structure of the alloys, i.e. an increase of the degree of micro-inhomogeneity can take place. There are 4 figures and 3 Soviet references.

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AUTHORS: Drits, M.Ye., Sviderskaya, Z.A., Kadaner, E.S.,  
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TITLE: Magnesium Alloys for Work at Elevated Temperatures (Magniyevyye splavy dlya raboty pri povyshennykh temperaturakh)

PERIODICAL: V sb.: Legkiye splavy. Nr 1. Moscow, 1958, pp 147-156

ABSTRACT: MA9, a new Mg alloy (A) based on the Mg-Mn system, plus small additions of other elements, is developed. In heat resistance when cast, MA9 is superior to all the standard foundry A and the majority of A containing the rare elements. At room temperature, the mechanical properties of the cast A are below standard:  $\sigma_b$  14-16 kg/mm<sup>2</sup>,  $\delta$  4-6%. In the extruded condition, MA9 combines superior mechanical properties at room temperature:  $\sigma_b$  30-32 kg/mm<sup>2</sup>,  $\sigma_s$  28-29 kg/mm<sup>2</sup>,  $\delta$  7-8%, with adequate heat resistance  $\sigma_{100}^{200}$  7-9 kg/mm<sup>2</sup> and  $\sigma_{100}^{250}$  5 kg/mm<sup>2</sup>. Pilot-plant tests of

Card 1/2 the properties of MA9 with semifinished products from